

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 581  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

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 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 581  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 581  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
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2021-06-06							
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Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

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**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 582  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
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2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>		<b>Submission Date/Time</b>  	
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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 582  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-06-01							
2021-06-02							
2021-06-03							
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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 582  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
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**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 601  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Hydraulic Loading Rate (HLR)	Sludge Solids, Percent Total	Sludge Solids, Percent Volatile	COD, Soluble	Organic Loading Rate (OLR)		
PARAMETER CODE	51028	70318	70322	80116	99981		
UNITS	GPD	%	%	mg/l	lb/cf/day		
FREQUENCY	1/Week	1/Week	1/Week	1/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
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2021-06-26							
2021-06-27							
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2021-06-29							
2021-06-30							
Minimum							
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**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 602  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
  
**REPORTING LAB:** Masi  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Temperature, In Sludge	pH	Alkalinity, Total (CaCO3)	Volatile Fatty Acids (VFA)	Detention Time, days		
PARAMETER CODE	99978	00400	00410	99980	72026		
UNITS	F	S.U.	mg/l	mg/l	days		
FREQUENCY	1/Day	3/Week	3/Week	3/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
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2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	



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**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 603  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Solids, Total Volatile	Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157	70322	80116	00552	99979		
UNITS	% Removed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	1/Week	1/Week	1/Month	1/Month		
SAMPLING TYPE	Calculated	Composite	Composite	Composite	Composite		
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
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2021-06-26							
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Maximum							
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**LOCATION:** 2881 Co Rd 156  
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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 604  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>			<b>Submission Date/Time</b>	
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**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 605  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge				
PARAMETER CODE	82564	99977				
UNITS	feet	mgals				
FREQUENCY	1/Week	1/Week				
SAMPLING TYPE	Total	Total				
2021-06-01						
2021-06-02						
2021-06-03						
2021-06-04						
2021-06-05						
2021-06-06						
2021-06-07						
2021-06-08						
2021-06-09						
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2021-06-11						
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2021-06-27						
2021-06-28						
2021-06-29						
2021-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson						Certification Version Date 2021-07-20 13:07

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 606  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** N/A  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 607  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
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2021-06-15							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 608  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** N/A  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 609  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge				
PARAMETER CODE	82564	99977				
UNITS	feet	mgals				
FREQUENCY	1/Week	1/Week				
SAMPLING TYPE	Total	Total				
2021-06-01						
2021-06-02						
2021-06-03						
2021-06-04						
2021-06-05						
2021-06-06						
2021-06-07						
2021-06-08						
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2021-06-10						
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2021-06-25						
2021-06-26						
2021-06-27						
2021-06-28						
2021-06-29						
2021-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson						Certification Version Date 2021-07-20 13:07

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 701  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
  
**REPORTING LAB:** N/A  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>		<b>Submission Date/Time</b>  <div style="text-align: center;">2021-07-20 13:07</div>
							<b>Certification Version Date</b>  <div style="text-align: center;">2021-07-20 13:07</div>



# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 701  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** N/A  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
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2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 701  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** N/A  
**ANALYST:** jeffrey williamson  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Residue, Total Filterable					
PARAMETER CODE	70300					
UNITS	mg/l					
FREQUENCY	2/Year					
SAMPLING TYPE	Grab					
2021-06-01						
2021-06-02						
2021-06-03						
2021-06-04						
2021-06-05						
2021-06-06						
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2021-06-28						
2021-06-29						
2021-06-30						
Minimum						
Maximum						
Average						
Count						
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Jeffrey Williamson						Certification Version Date 2021-07-20 13:07

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 702  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
  
**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
Jeffrey Williamson							<b>Certification Version Date</b> 2021-07-20 13:07

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 702  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
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2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 702  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Residue, Total Filterable					
PARAMETER CODE	70300					
UNITS	mg/l					
FREQUENCY	2/Year					
SAMPLING TYPE	Grab					
2021-06-01						
2021-06-02						
2021-06-03						
2021-06-04						
2021-06-05						
2021-06-06						
2021-06-07						
2021-06-08						
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2021-06-12						
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2021-06-14						
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2021-06-24						
2021-06-25						
2021-06-26						
2021-06-27						
2021-06-28						
2021-06-29						
2021-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative	Submission Date/Time	
Jeffrey Williamson					Certification Version Date 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 703  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
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2021-06-09							
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2021-06-11							
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2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
Jeffrey Williamson							<b>Certification Version Date</b> 2021-07-20 13:07

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 703  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							
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Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 703  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** Brookside  
**ANALYST:** Kari Long  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Residue, Total Filterable					
PARAMETER CODE	70300					
UNITS	mg/l					
FREQUENCY	2/Year					
SAMPLING TYPE	Grab					
2021-06-01						
2021-06-02						
2021-06-03						
2021-06-04						
2021-06-05						
2021-06-06						
2021-06-07						
2021-06-08						
2021-06-09						
2021-06-10						
2021-06-11						
2021-06-12						
2021-06-13						
2021-06-14						
2021-06-15						
2021-06-16						
2021-06-17						
2021-06-18						
2021-06-19						
2021-06-20						
2021-06-21						
2021-06-22						
2021-06-23						
2021-06-24						
2021-06-25						
2021-06-26						
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2021-06-28						
2021-06-29						
2021-06-30						
Minimum						
Maximum						
Average						
Count						
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Jeffrey Williamson						Certification Version Date 2021-07-20 13:07



# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 704  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
  
**REPORTING LAB:** N/A  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
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2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
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Jeffrey Williamson							<b>Certification Version Date</b> 2021-07-20 13:07

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**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 704  
**MONITORING PERIOD :** 2021-06-01 To: 2021-06-30  
**REPORTING LAB:** N/A  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-06-01							
2021-06-02							
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Jeffrey Williamson						<b>Certification Version Date</b>  2021-07- 20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1066626  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 704  
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**REPORTING LAB:** N/A  
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PARAMETER	Residue, Total Filterable						
PARAMETER CODE	70300						
UNITS	mg/l						
FREQUENCY	2/Year						
SAMPLING TYPE	Grab						
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Jeffrey Williamson						<b>Certification Version Date</b> 2021-07-20 13:07	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**FACILITY:**  
**LOCATION:**

Emerald BioEnergy  
2881 Co Rd 156  
Cardington, OH 43315

**PERMIT NUMBER:**  
**MONITORING PERIOD :**

**4IN00204\*BD**  
**2021-06-01 To: 2021-06-30**

## PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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